

GEMÜ 1205

Electrical position indicator ATEX



Features

- Can be fitted to GEMÜ valves or third-party actuators
- Compact, solid aluminium housing
- Adjustable switch point tolerances

Description

The GEMÜ 1205 electrical position indicator has electro-mechanical microswitches in a flameproof enclosure. Two valve positions, open and/or closed can be remotely indicated.

Technical specifications

- **Ambient temperature:** -20 to 60 °C
- **Linear measuring range:** 2 to 70 mm
- **Supply voltages:** 250 V AC
- **Protection class:** IP 65
- **Electrical connection type:** M20 cable gland
- **Switch types:** Microswitch
- **Conformities:** ATEX

Technical data depends on the respective configuration



Product description



Item	Name	Materials
1	Cover	Aluminium diecasting
2	Base	Aluminium diecasting
3	Operating bush	1.4104
4	Guide piece	1.4305

Order data

The order data provide an overview of standard configurations.

Please check the availability before ordering. Other configurations available on request.

Note: Mounting kit 1205 S01 Z...AT dependent on valve type. Please order separately specifying valve type, DN, control function and actuator size.

Order codes

1 Type	Code
Electrical position indicator ATEX for linear actuators	1205

2 Fieldbus	Code
Without	000

3 Accessory	Code
Accessory	Z

4 Housing material	Code
Aluminium diecasting	AL

5 Function	Code
Open / Closed	A00
Open	A01

5 Function	Code
Closed	A02

6 Electrical connection	Code
M20 cable gland	03

7 Options	Code
Without	00

8 Switch	Code
Change-over contact, microswitch	M2

9 Connection diagram	Code
Microswitch PNP	M2

10 Special version	Code
ATEX 2014/34/EU	X

Order example

Ordering option	Code	Description
1 Type	1205	Electrical position indicator ATEX for linear actuators
2 Fieldbus	000	Without
3 Accessory	Z	Accessory
4 Housing material	AL	Aluminium diecasting
5 Function	A00	Open / Closed
6 Electrical connection	03	M20 cable gland
7 Options	00	Without
8 Switch	M2	Change-over contact, microswitch
9 Connection diagram	M2	Microswitch PNP
10 Special version	X	ATEX 2014/34/EU

Technical data

Temperature

Ambient temperature: -20 to 60 °C

Storage temperature: 0 – 40 °C

Product compliance

Explosion protection: Special version X order code

ATEX marking: Gas:  II 2G Ex db eb IIC T6 Gb
Dust:  II 2D Ex tb IIIC T80°C Db

Type examination certificate: IBExU18ATEX1008

Mechanical data

Weight: 1146.5 g

Protection class: IP 65 acc. to EN 60529

Range of limit switch: 2 to 70 mm continuous

Mechanical stability: 7 Nm, impact energy acc. to EN 60079-0

Max. switching frequency: ≤ 1000 switching cycles/h

Electrical data

Switch type: Microswitch

Switch rating: **Switch rating AC**

Voltage	Ohmic load	Inductive load ($\cos\phi = 0.6$)
250 V	5 A	3 A
30 V	7 A	5 A

Switch rating DC

Voltage	Ohmic load	Inductive load ($\cos\phi = 0.6$)
250 V	0.4 A	0.03 A
30 V	7 A	5 A

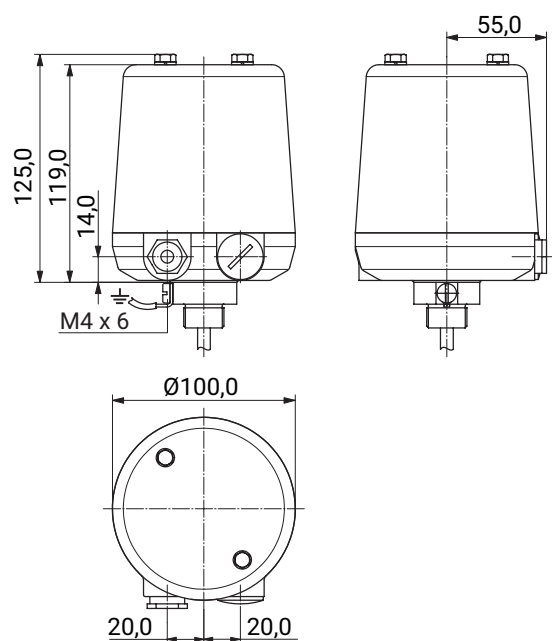
Information applies to 40 °C ambient temperature

Thermal rated current: 6 A

Electrical connection type:

M20 cable gland	1 x available (Type Bartec 03-6020-0016)
	1 x prepared (blanking cover)
Cable diameter:	7 to 13 mm
Terminal diameter:	2.5 mm ²
Earth terminal:	4.0 mm ²
Potential equalisation:	Stranded wire, yellow/green, H 07 V-K 4.0
Tightening torque	10 Nm

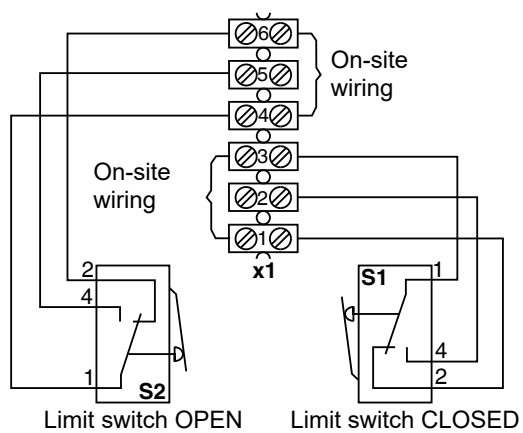
Dimensions



Dimensions in mm

Electrical connection

Terminals, microswitch (code 104)





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